## INTERNATIONAL SEARCH REPORT

International application No.

	PCT/US04/28021				
A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) : A61K 31/4745, 31/5377; C07D 471/04, 413/1- US CL : 514/293, 232.8; 546/82; 544/126	4				
According to International Patent Classification (IPC) or to both na	tional classification and IPC				
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed)	by classification symbols)				
U.S.: 514/293, 232.8; 546/82; 544/126					
Documentation searched other than minimum documentation to the	extent that such documents are included in	the fields searched			
Electronic data base consulted during the international search (nam	e of data hase and where practicable search	h terme used)			
STN STRUCTURE SEARCH, FILE CAPLUS	e of that our and, where proceeding, search	i tellis usea)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category * Citation of document, with indication, where a	appropriate, of the relevant passages	Relevant to claim No.			
A US 4,698,348 (GERSTER, J.F) 06 October 1987 ( 0		1-54			
		•			
Further documents are listed in the continuation of Box C.	See patent family annex.				
Special estegories of cited documents:	"T" later document published after the inte	reational filing date or priority			
"A" document defining the general state of the art which is not considered to be of	date and not in conflict with the applic principle or theory underlying the inve	ation but cited to understand the			
particular relevance					
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be considered.				
"L" document which may throw doubts on priority claim(s) or which is cited to	when the document is taken alone				
establish the publication date of another citation or other special reason (as	"Y" document of particular relevance; the	claimed invention cannot be			
specified)	considered to involve an inventive step combined with one or more other such	when the document is			
"O" document referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the	e art			
"P" document published prior to the international filing date but later than the	"&" document member of the same patent	family			
priority date claimed					
Date of the actual completion of the international search  Date of mailing of the international search report					
10 December 2004 (10.12.2004) 03 FEB 2005					
Name and mailing address of the ISA/US	Authorized officer Onnulal	Shelampe			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Cecilia Tsang	- 0-0			
P.O. Box 1450					
Alexandria, Virginia 22313-1450 Telephone No. (703)308-1235 Facsimile No. (703) 305-3230					

Form PCT/ISA/210 (second sheet) (January 2004)

# From the INTERNATIONAL SEARCHING AUTHORITY TO: DOFFICE OF INTELLECTUAL PROPERTY COUNSEL POST OFFICE OF NITELLECTUAL PROPERTY COUNSEL POST OFFICE BOX 33427 WRITTEN OPINION OF THE

SAINT PAUL, MN 55133-3427 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) 03 FEB 2005 Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION See paragraph 2 below 58914WO009 International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/US04/28021 27 August 2004 (27.08.2004) 27 August 2003 (27.08.2003) International Patent Classification (IPC) or both national classification and IPC IPC(7): A61K 31/4745, 31/5377; C07D 471/04, 413/14 and US Cl.: 514/293, 232.8; 546/82; 544/126 Applicant 3M INNOVATIVE PROPERTIES COMPANY 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further opioions, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/ US  Mail Stop PCT, Attn: ISA/US  Commissioner for Patents	Authorized officer Ynubel Shatam for
P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Telephone No. (703)308-1235

Form PCT/ISA/237 (cover sheet) (January 2004)

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/28021

Box No. I Basis of this opinion
<ol> <li>With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</li> </ol>
This opinion has been eablished on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
<ol><li>With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:</li></ol>
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
in written format
in computer readable form
c. time of filing/furnishing
contained in international application as filed.
filed together with the international application in computer readable form.
furnished subsequently to this Authority for the purposes of search.
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/28021

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 1. Statement Novelty (N) Claims 1-54 YES Claims NONE NO Inventive step (IS) Claims 1-54 Claims NONE NO Industrial applicability (IA) Claims 1-54 YES Claims NONE NO 2. Citations and explanations: Claims 1-54 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the instant compounds of formulae I, II, III, VII, IX and XI, pharmaceutical compositions containing these compounds and a method of using the compounds. Claims 1-54 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

### PATENT COOPERATION TREATY

From the						
INTERNATIONAL SEARCHING AUTHORITY  To: DEAN A. ERSFELD			PCT	REC'D 1	07	FEB 2005
OFFICE OF INTELLECTUAL PROPE	RTY COUNSEL		101	WIPO		PCT
POST OFFICE BOX 33427 SAINT PAUL, MN 55133-3427			UTTEN OPINION OF ONAL SEARCHING A	THE	ITY	
			(PCT Rule 43bis.1)			
		Date of mailing (day/month/year)	<b>03</b> FEB 2005		_	
Applicant's or agent's file reference		FOR FURTHER	ACTION See paragraph 2 below			
58914WO009						
International application No.	International filing date	(day/month/year)	Priority date (day/month/y	onth/year)		
PCT/US04/28021 International Patent Classification (IPC)	27 August 2004 (27.08.2	(004)	27 August 2003 (27.08.20	03)		_
			16700 444406			
IPC(7): A61K 31/4745, 31/5377; C07D Applicant	471/04, 413/14 and US CI.	; 514/293, 232.8 ; 54	16/82 ; 544/126		_	
3M INNOVATIVE PROPERTIES COM	PANY					
1. This opinion contains indications rel	ating to the following item	s:				
Box No. I Basis of the	e opinion					
Box No. II Priority						
Box No. III Non-establ	ishment of opinion with reg	gard to novelty, inver	ntive step and industrial appl	licability		
Box No. IV Lack of un	ity of invention					
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain documents cited						
Box No. VII Certain defects in the international application						
Box No. VIII Certain observations on the international application						
2. FURTHER ACTION						
If a demand for international proliminary examination is made, this opinion will be considered to be a written opinion of the International Proliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bir(b) that written opinions of this International Scarching Authority will not be so considered.						
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3. For further details, see notes to Form PCT/ISA/I220.						
Name and mailing address of the ISA/US  Mail Stop PCT, Atm: ISA/US  Authorized officer  Authorized officer  Authorized officer				-		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Cecilia Tsang	T	, ,		1
P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. (703)308-1235						
Facsimile No. (703) 305-3230 Form PCT/ISA/237 (cover sheet) (January	Facsimile No. (703) 305-3230 Form PCT/ISA/237 (cover sheet) (January 2004)					

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.	-
PCT/US04/28021	

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a sequence listing	
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in written format	
in computer readable form	
c. time of filing/furnishing	
contained in international application as filed.	
filed together with the international application in computer readable form.	
furnished subsequently to this Authority for the purposes of search.	
·	
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been or furnished, the required statements that the information in the subsequent or additional copies is identical to that in application as filled or does not go beyond the application as filled or does not go beyond the application as filled.	iled the
4. Additional comments:	
8	

#### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

• 12/0 V

International application No. PCT/US04/28021

INTERNATIONAL SEARCHING				
Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement				
Novelty (N)	Claims 1-54	YES		
	Claims NONE	NO		
Inventive step (IS)	Claims 1-54	YES		
	Claims NONE	N0		
Industrial applicability (IA)	Claims 1-54	YES		
	Claims NONE	NO		
0.00				
2. Citations and explanations;				
Claims 1-54 meet the criteria set out in PCT Article compounds of formulae I, II, III, VII, IX and XI, ph compounds.	33(2)-(3), because the prior art does not teach of armaceutical compositions containing these con	or fairly suggest the instant inpounds and a method of using the		
Claims 1-54 meet the criteria set out in PCT Article be made or used in industry.	33(4), and thus have industrial applicability bed	cause the subject matter claimed can		